The Afghanistan Engineering Support Program assembled this deliverable. It is an approved, official USAID document. Budget information contained herein is for illustrative purposes. All policy, personal, financial, and procurement sensitive information has been removed. Additional information on the report can be obtained from Firouz Rooyani, Tetra Tech Sr. VP International Operations, (703) 387-2151.



Site Visit Report	Project: Maymana Fruit and Vegetable Market Construction
Location: Maymana City, Faryab Province	Coordinates: Latitude: N35°54'46.85" Longitude: E 64°47'49.01"
Inspection Date:	Weather:
December 02, 2013	Partly Cloudy, Temp @ 12°C, No Precipitation
Inspectors:	Status: Incomplete

PRESENTED TO

United States Agency for International Development (USAID)
Office of Economic Growth and Infrastructure (OEGI)

RampUP-North

Great Massoud Road Kabul, Afghanistan

PRESENTED BY

Tetra Tech, Inc.
Afghanistan Engineering Support Program
Contract No. EDH-I-00-08-00027-00
Task Order No. 1

Work Order WO-LT-0009 AMD #5

Shash Darak Kabul, Afghanistan



Title: Deputy Chief of Party

05/14/2014

EXECUTIVE SUMMARY

The Fruit and Vegetable Market Construction Project is located in the Maymana City, Faryab Province. The project includes construction of steel structure canopy, brick masonry boundary walls, drainage system, latrine and water well. This project is jointly funded by USAID/RAMPUP-North and Maymana City Municipality.

On December 02, 2013, a civil engineer from Tetra Tech (Tt) Afghanistan Engineering Support Program (AESP) traveled to the Maymana City to inspect and evaluate the visible completed works of the Maymana City Fruit and Vegetable Market project. Tt determined that the construction work of the Maymana City Fruit and Vegetable Market project is well underway but incomplete.

The USAID's contribution in this project consists of the construction of the boundary walls with a total length of 124 meters, drainage system, steel structure canopy for the fruit and vegetable market.

The Maymana Municipality's contribution includes the construction of three (3) latrine stalls and water well drilling.

Over all, the USAID's portion of the construction work for the Maymana Fruit and Vegetable Market is ongoing; however, the Maymana Municipality portion of the construction work is complete.

DISCLAIMER

The author's views expressed in this publication do not necessarily reflect the views of the United States Agency for International Development or the United States Government.

TABLE OF CONTENTS

EXECUTIVE SUMMARY	i
1.0 INTRODUCTION	2
2.0 SITE VISIT	2
3.0 SITE VISIT DETAILS: USAID RESPONSIBILITY	2
4.0 SITE VISIT DETAILS: MUNICIPALITY RESPONSIBILITY	3
LIST OF FIGURES	
Figure 1. View of the RCC floor slab	4
Figure 2. View of the RCC floor slab	4
Figure 3. View of the market building	5
Figure 4. Interior view of the market building	5
Figure 5. View of the steel column fixed on the baseplate	6
Figure 6. View of the steel column fixed on the baseplate	6
Figure 7. View of the iron beam and columns joint	7
Figure 8. View of the steel truss joint	7
Figure 9. View of the steel trusses and columns	8
Figure 10. View of the frame for sub ceiling	8
Figure 11. View of the frame dimension for sub ceiling	9
Figure 12. View of the Galvanized Iron (GI) sheet for the roof	9
Figure 13. Stone masonry drainage ditch	10
Figure 14. Steel grating on top of drainage ditch	10
Figure 15. View of the Boundary walls	11
Figure 16. Northern boundary walls	11
Figure 17. Southern boundary walls	12
Figure 18. View of the boundary walls construction joint	12

APPENDICES

APPENDIX A - MAYMANA CITY FRUIT & VEGETABLE MARKET CONSTRUCTION PLANS

This report was prepared for the United States Agency for International Development, Contract No. EDH-I-00-08-00027-00, Task Order 01, Afghanistan Engineering Support Program.

1.0 INTRODUCTION

Maymana City is the capital of Faryab Province located in northwest part of Afghanistan. The Municipality of Maymana has ten (10) districts with a total population of 76,700. The Maymana City Service Delivery Advisory Group (SDAG) and Public Administration Advisory Group (PAAG) have prioritized this project based on the community. The Maymana City residents have been facing problems accessing enough fruit and vegetable due to population growth and the current market being inadequate to serve all citizens; thus both parties SDAG and PAAG prioritized and selected the construction of a fruit and vegetable market for Maymana City and nearby villages. The fruit and vegetable market is facilitating access for fresh fruit and vegetable to the Districts 5, 6, 10, parts of District 2 residents, and the residents of neighboring villages in Pashtunkut District of Faryab Province. This project is jointly funded by USAID/RAMP UP-North and Maymana City Municipality.

The USAID's contribution in this project consists of the construction of the boundary walls with total length of 124 meters, drainage system, and steel structure canopy for the Fruit and Vegetable Market.

The Maymana City Municipality's contributions include construction of three (3) latrine stalls and drilling water well.

2.0 SITE VISIT

A civil engineer from Tt reviewed the provided project documentation for the Maymana City Fruit and Vegetable Market construction and traveled to Maymana City on December 02, 2013 to inspect and evaluate the visible completed works. The provided project documentation included plans, details, and cross sections in Appendix A. Tt engineer was accompanied by the Development Alternatives, Inc. (DAI) site civil engineer during the project evaluation. The findings of this site observation are documented in this report, including photos provided in the figures section on pages 4 to12.

3.0 SITE VISIT DETAILS: USAID RESPONSIBILITY

Regarding the USAID funded portion of works, the following was observed:

- Construction of reinforced concrete floor slab of the steel structure canopy is completed. (See Figures 1 and 2)
- 2. Installation of steel columns, roof trusses, gutters and downspouts are completed. (See Figures 3, 4, 5, 6, 7, 8, 9, 10, 11 and 12)
- Construction of the boundary walls including stone and brick masonry work, pointing of stone
 masonry, plastering and painting of walls with a total length of 124 meters is complete; however,
 some variation from the plans and drawings provided were observed as listed below.
 (See Figures 15 16, 17 and 18)
 - a. The drawings indicate the construction joints located in every 15 to 20 meters length of the boundary wall whereas the contractor has constructed only two (2) construction joints along the 124 meter length of the boundary wall. (See Figure 18)
 - b. The drawings indicate brick masonry columns of 0.35m x 0.35m x2.00m dimensions located each 2.5 meters apart along the boundary wall length, whereas, these columns have not been constructed. (See Figures 16, 17 and 18)
 - c. The drawings indicate the thickness of the wall to be 25 centimeters whereas the contractor has built 35 centimeters thick wall instead of 25 centimeter.
- 4. Installation of the main entrance steel gate is complete per the drawings provided. (See Figure 17)
- 5. Construction of stone masonry drainage ditches with a total length of 125 meters is complete. (Figures 13 and 14)
- 6. Installation of steel grating on top of the drainage ditches is in progress per the provided drawings. (See Figures 13 and 14)

Remaining Works: The contractor is required to complete the installation of remaining steel grating on drainage ditches

Based on the above summary, Tt has determined USAID's portion of the construction work for the Maymana City Fruit and Vegetable Market construction project is well underway but incomplete.

4.0 SITE VISIT DETAILS: MUNICIPALITY RESPONSIBILITY

Regarding the Maymana City Municipality's funded portion of works, the following was observed:

- 1. Construction of three (3) latrine stalls, two (2) for men and one (1) for women is complete. (See Figure 18)
- 2. Construction of the water well that includes drilling up to 70 meters depth, installation of pipes, casings, and installation of a submersible water pump are complete.

Based on the above summary, Tt has determined that Maymana City Municipality's portion of the construction work for the Maymana City Fruit and Vegetable Market is completed with overall acceptable quality.

FIGURES



Figure 1. View of the RCC floor slab



Figure 2. View of the RCC floor slab



Figure 3. View of the market building



Figure 4. Interior view of the market building



Figure 5. View of the steel column fixed on the baseplate



Figure 6. View of the steel column fixed on the baseplate

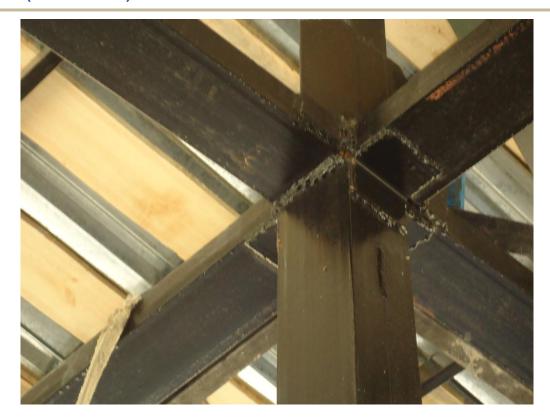


Figure 7. View of the iron beam and columns joint



Figure 8. View of the steel truss joint



Figure 9. View of the steel trusses and columns

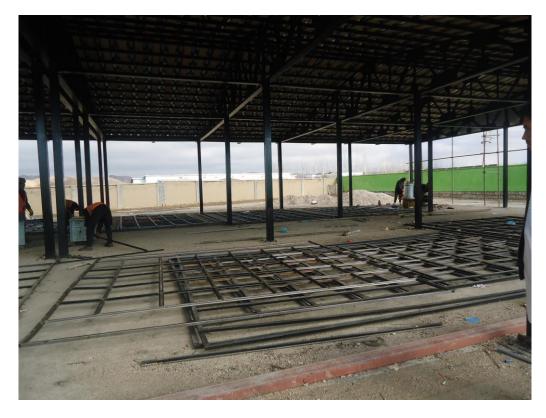


Figure 10. View of the frame for sub ceiling



Figure 11. View of the frame dimension for sub ceiling



Figure 12. View of the Galvanized Iron (GI) sheet for the roof



Figure 13. Stone masonry drainage ditch



Figure 14. Steel grating on top of drainage ditch



Figure 15. View of the Boundary walls



Figure 16. Northern boundary walls

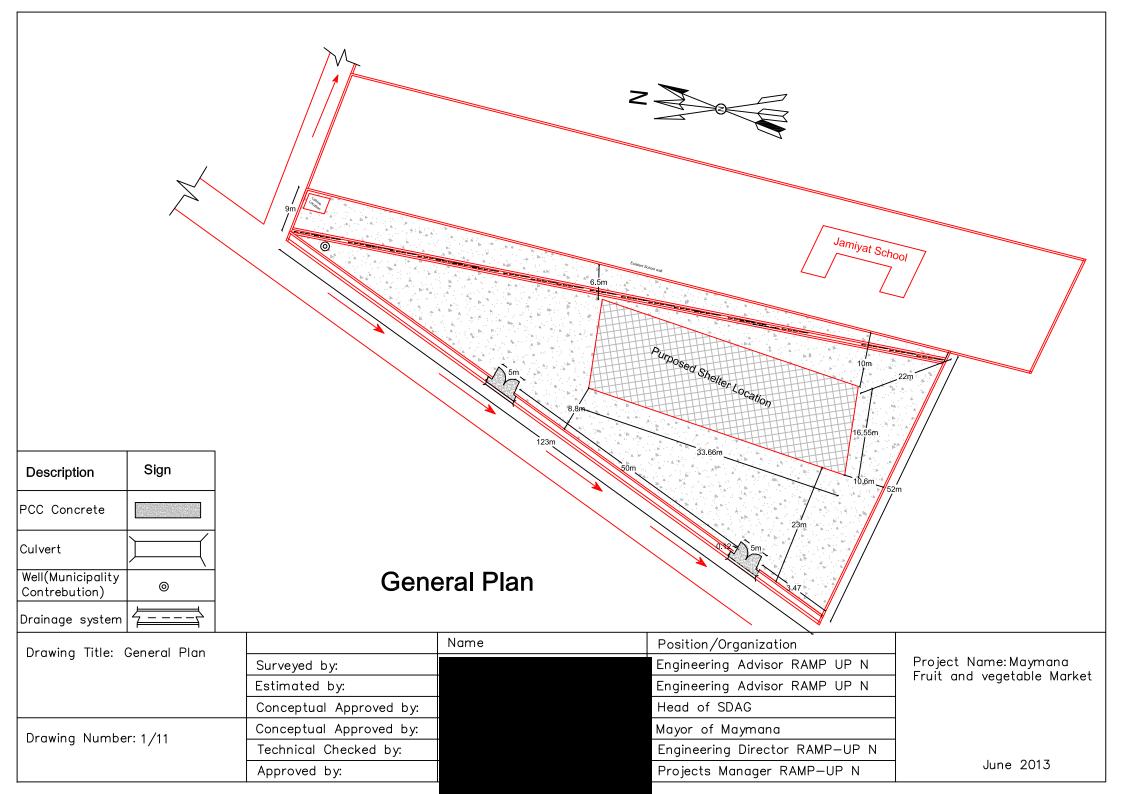


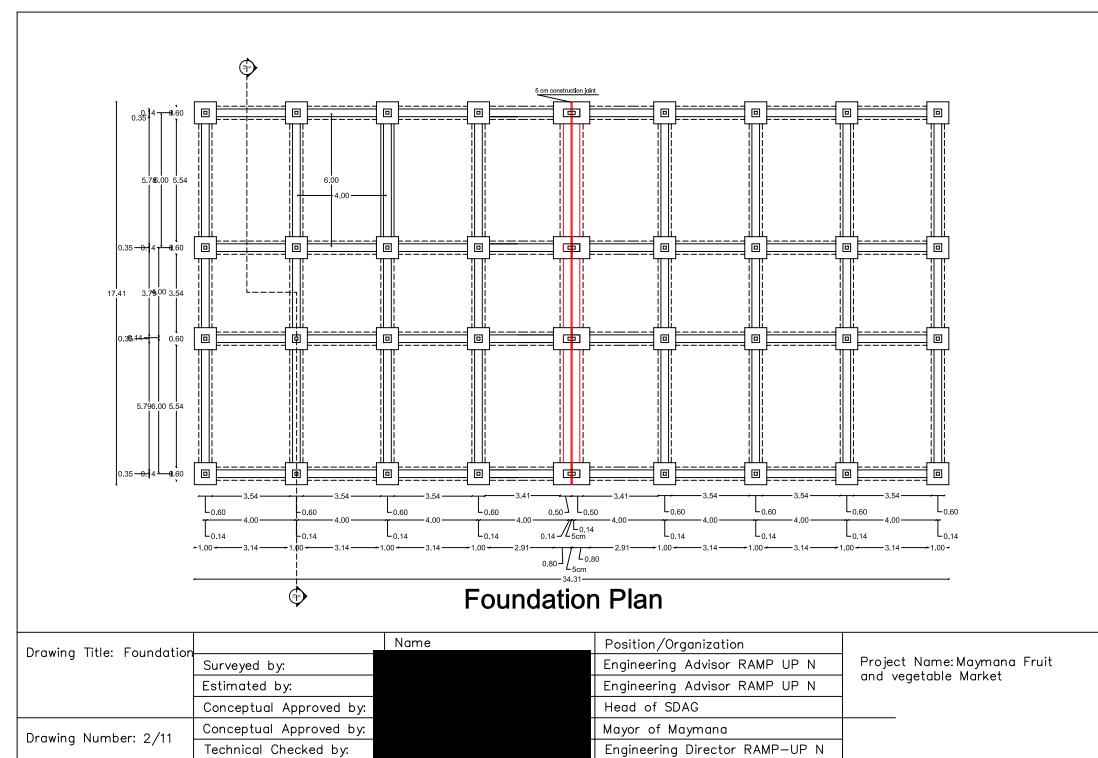
Figure 17. Southern boundary walls



Figure 18. View of the boundary walls construction joint

APPENDIX A – MAYMANA CITY FRUIT &VEGETABLE MARKET CONSTRUCTION PLANS

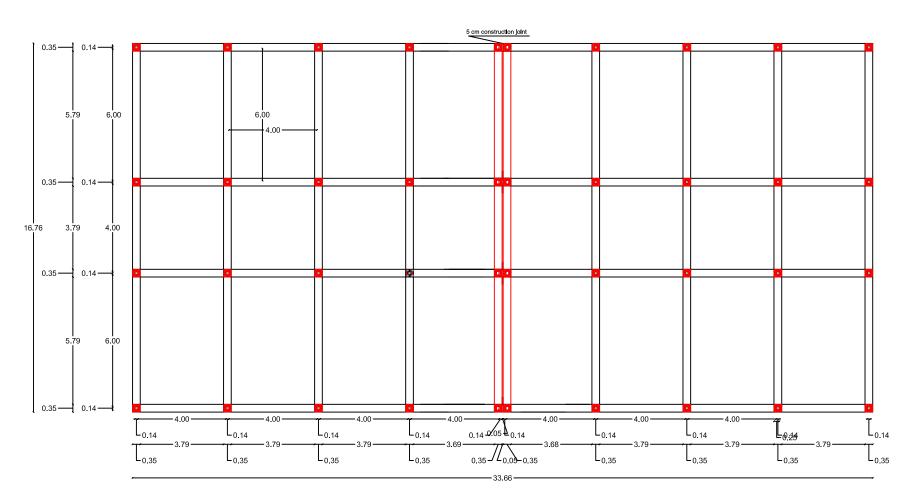




Projects Manager RAMP-UP N

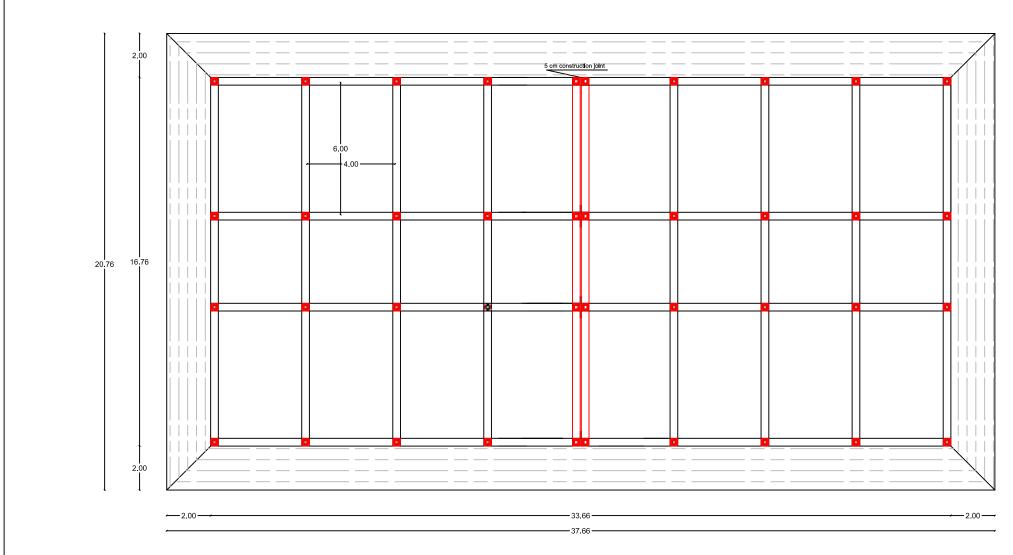
Approved by:

June 2013



Floor Plan

Drawing Title: Floor Plan		Name	Position/Organization	
Drawing True. 11001 11411	Surveyed by:		Engineering Advisor RAMP UP N	Project Name: Maymana Fruit
	Estimated by:		Engineering Advisor RAMP UP N	and vegetable Market
	Conceptual Approved by:		Head of SDAG	
Drawing Number: 3/11	Conceptual Approved by:		Mayor of Maymana	
Drawing Namber: 3711	Technical Checked by:		Engineering Director RAMP—UP N	
	Approved by:		Projects Manager RAMP-UP N	June 2013

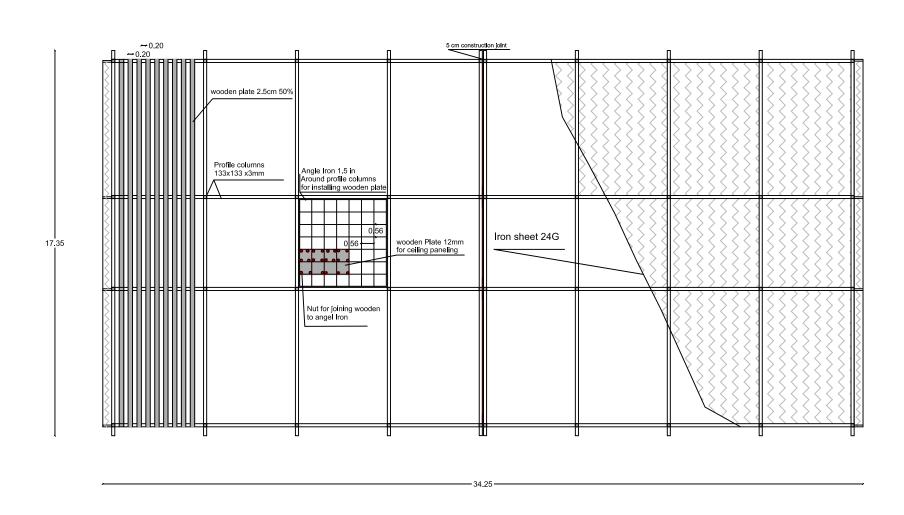


Ramp Stair Plan

Drawing Title: Ramp Stair Plan	Name Position/Organization		Position/Organization	
brawing ride. Kamp Stall Flair	Surveyed by:		Engineering Advisor RAMP UP N	Project Name: Mayn
	Estimated by:		Engineering Advisor RAMP UP N	and vegetable Mark
	Conceptual Approved by:		Head of SDAG	
Drawing Number: 4/11	Conceptual Approved by:		Mayor of Maymana	
browing Number. 4/11	Technical Checked by:		Engineering Director RAMP—UP N	
	Approved by:		Projects Manager RAMP-UP N	June 201

ymana Fruit Irket

013

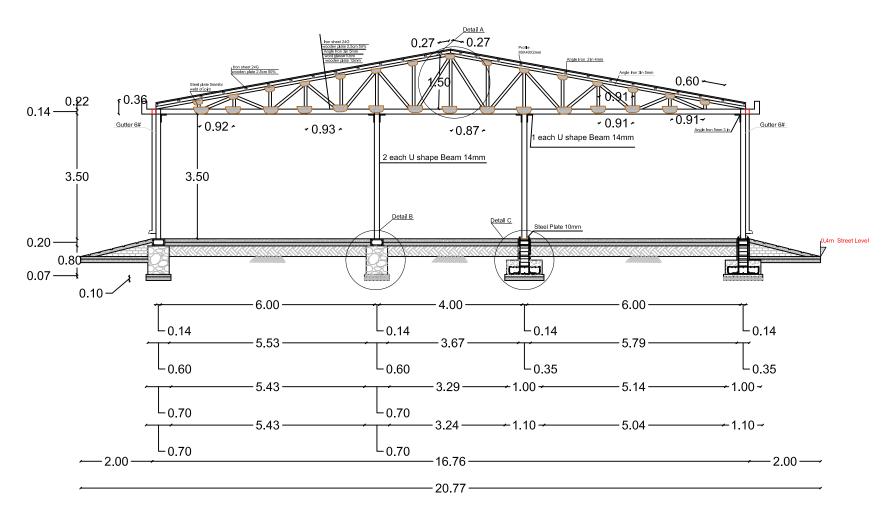


Roof Plan of Market

Drawing Title: Roof Plan of Market	Name		Position/Organization	
	Surveyed by:		Engineering Advisor RAMP UP N	F
	Estimated by:		Engineering Advisor RAMP UP N	C
	Conceptual Approved by:		Head of SDAG	
Drawing Number: 5/11	Conceptual Approved by:		Mayor of Maymana	
brawing Namber. 5/11	Technical Checked by:		Engineering Director RAMP-UP N	
	A 1 1	T	D · I M DAMPIDM	

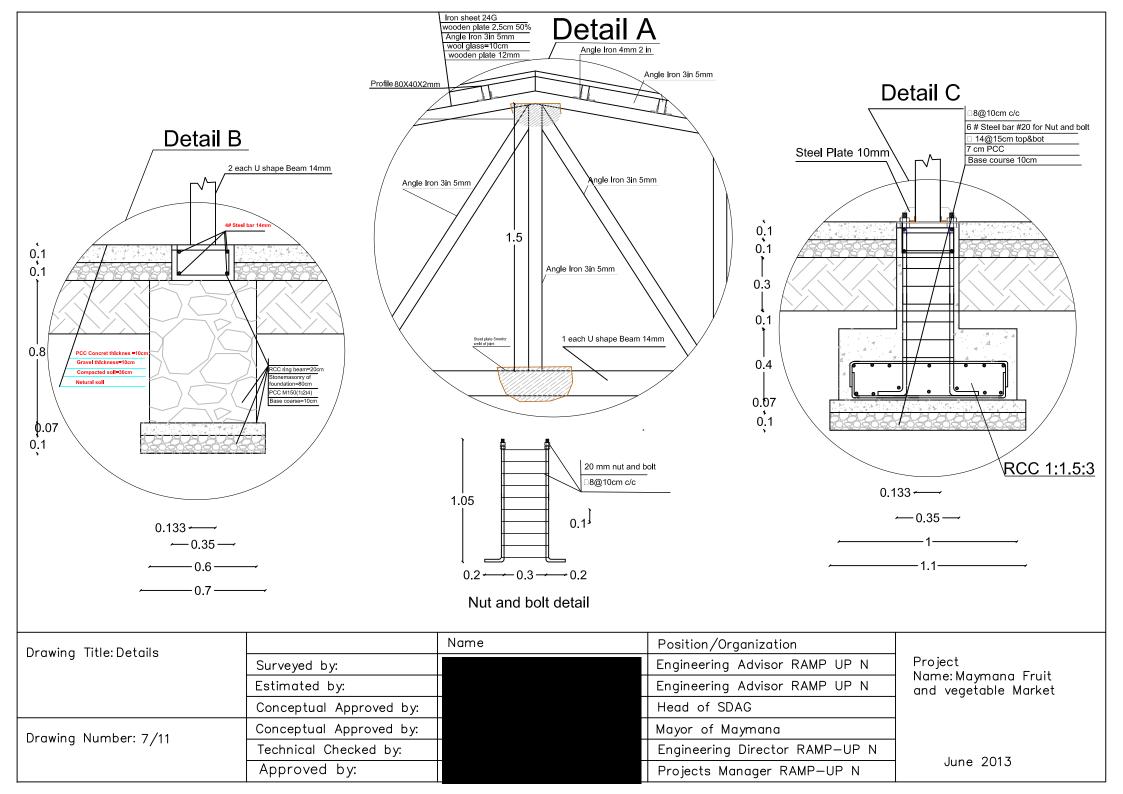
Project Name: Maymana Fruit and vegetable Market

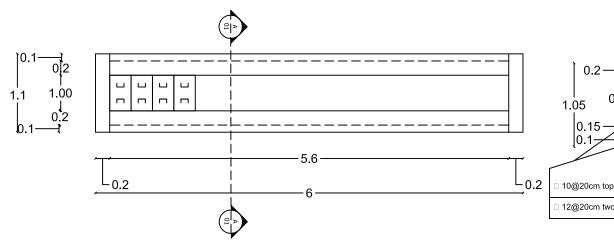
June 2013

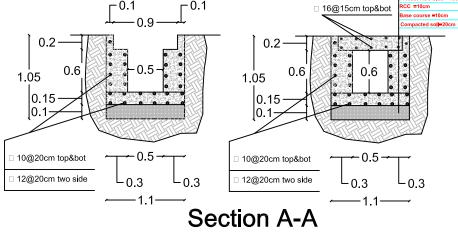


Section A-A

Drawing Title: A—A		Name	Position/Organization	
	Surveyed by:		Engineering Advisor RAMP UP N	Project
	Estimated by:		Engineering Advisor RAMP UP N	Name: Maymana Fruit and vegetable Market
	Conceptual Approved by:		Head of SDAG	
Drawing Number: 6/11	Conceptual Approved by:		Mayor of Maymana	
Drawing Namber. 6711	Technical Checked by:		Engineering Director RAMP—UP N	luiz - 2017
	Approved by:		Projects Manager RAMP-UP N	June 2013

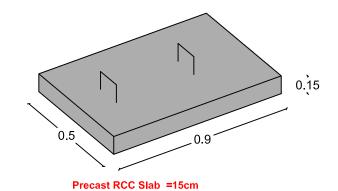




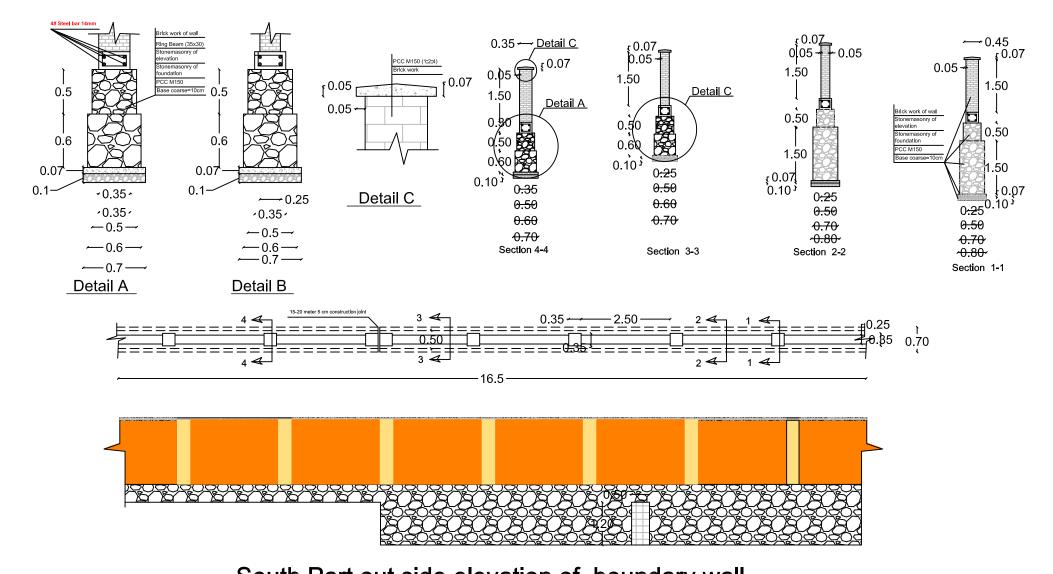


Culvert Plan

Culvert detail

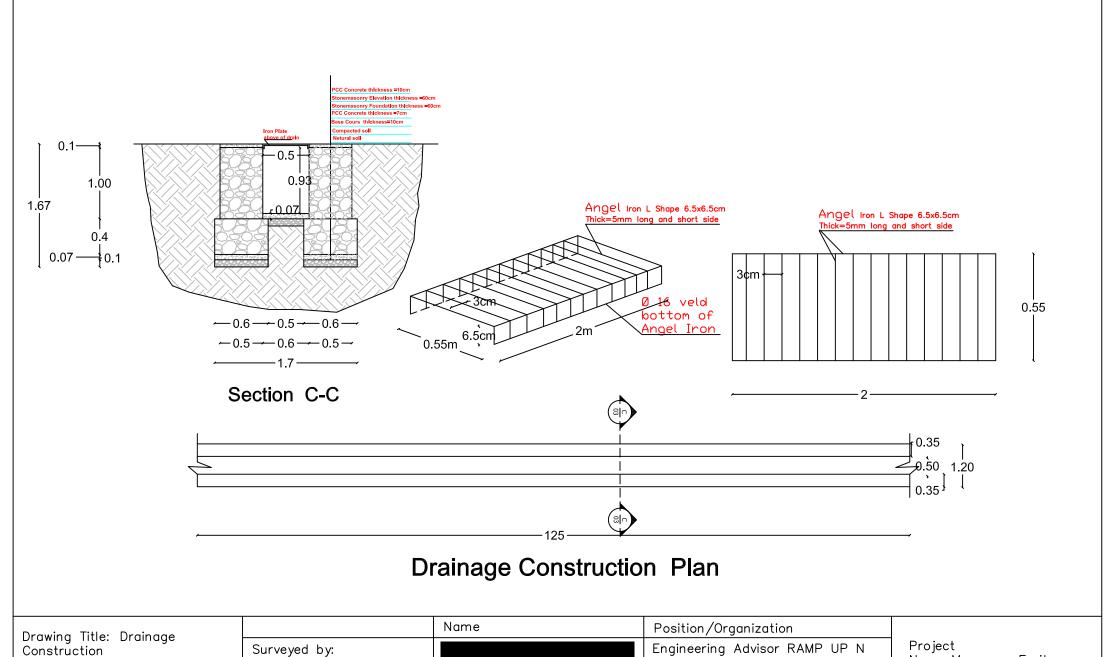


Drawing Title: Culvert Drawing		Name	Position/Organization	
	Surveyed by:		Engineering Advisor RAMP UP N	Project
	Estimated by:		Engineering Advisor RAMP UP N	Name: Maymana Fruit and vegetable Market
	Conceptual Approved by:		Head of SDAG	·
Drawing Number: 8/11	Conceptual Approved by:		Mayor of Maymana	
Drawing Namber: 6/11	Technical Checked by:		Engineering Director RAMP—UP N	hum a 2017
	Approved by:		Projects Manager RAMP—UP N	June 2013

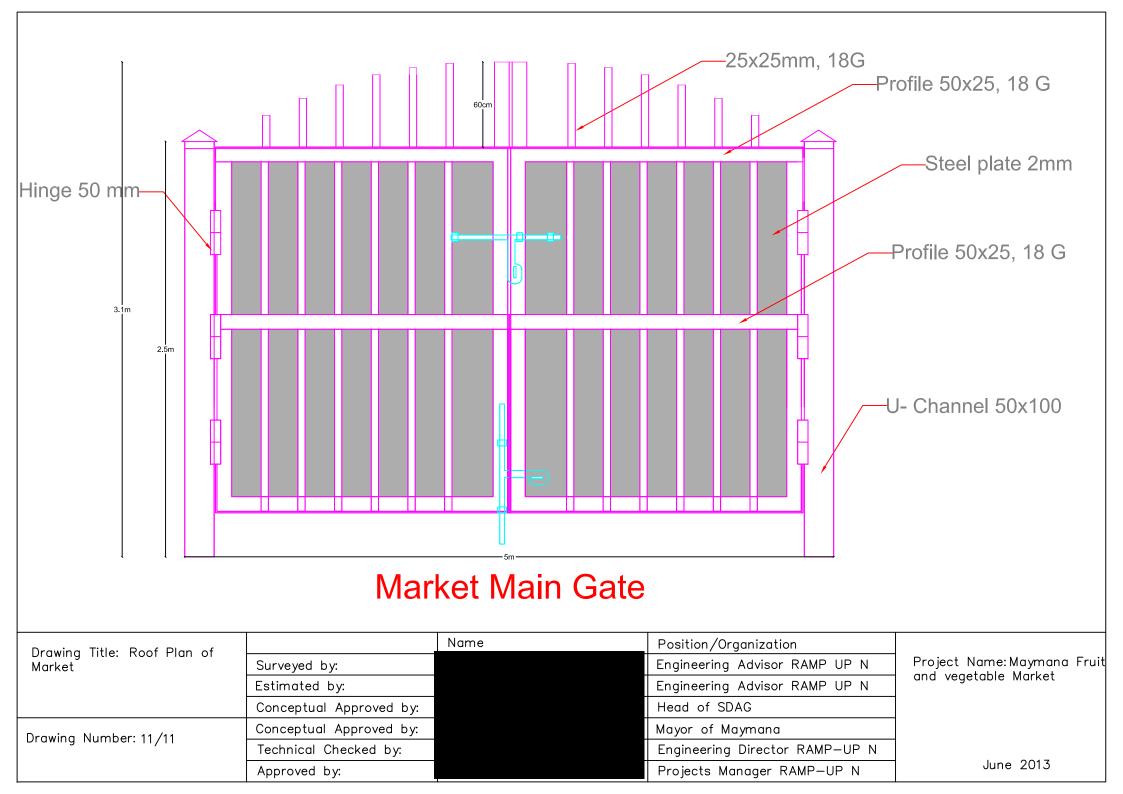


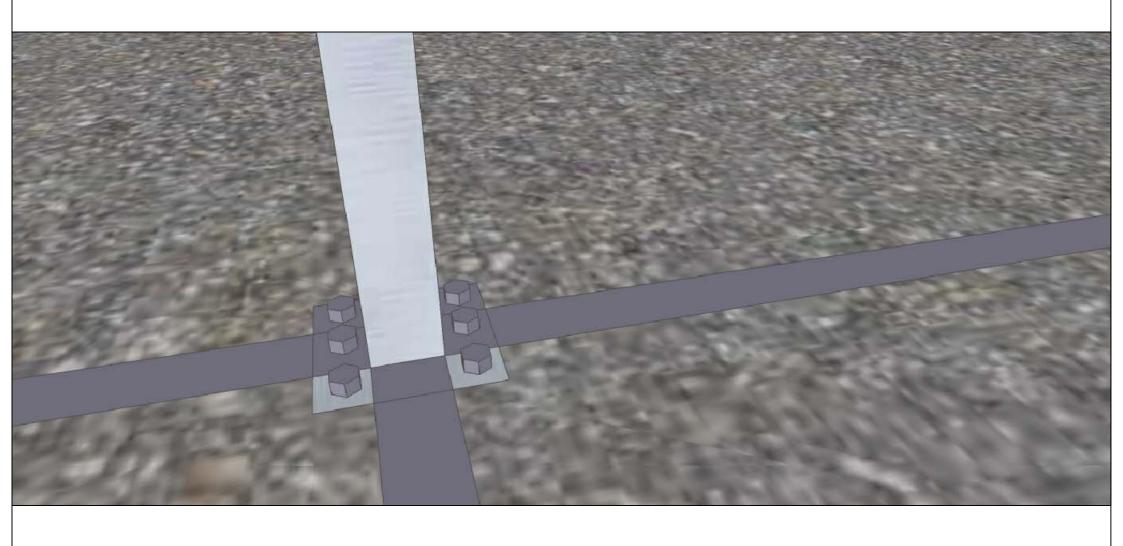
South Part out side elevation of boundary wall

Drawing Title: Boundary wall		Name	Position/Organization	
brawing Title. Boardary waii	Surveyed by:		Engineering Advisor RAMP UP N	Project
	Estimated by:		Engineering Advisor RAMP UP N	Name: Maymana Fruit and vegetable Market
	Conceptual Approved by:		Head of SDAG	
Drawing Number: 9/11	Conceptual Approved by:		Mayor of Maymana	
brawing Namber. 9/11	Technical Checked by:		Engineering Director RAMP-UP N	k 2017
	Approved by:		Projects Manager RAMP—UP N	June 2013



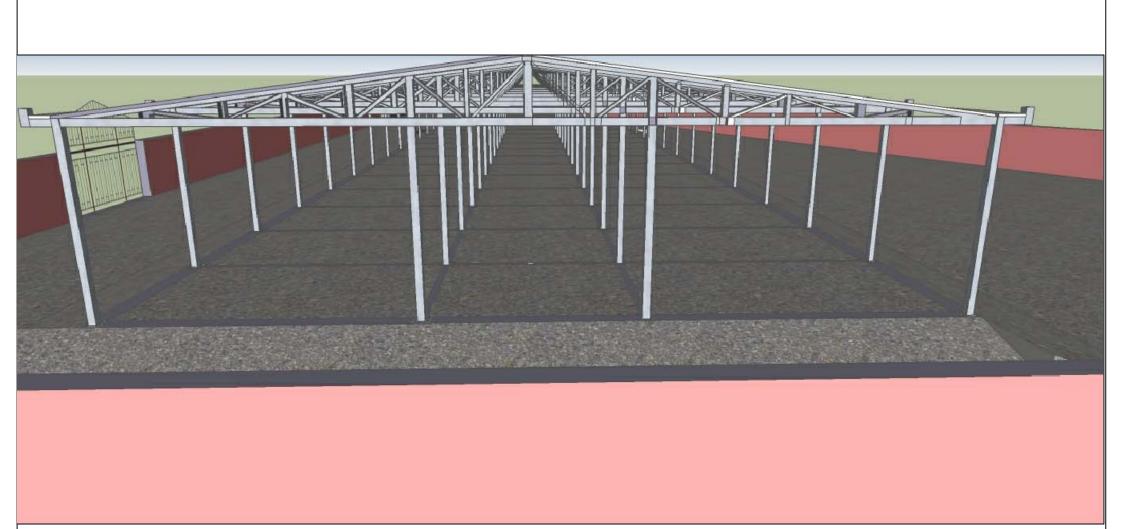
Drawing Title: Drainage		Name	Position/Organization	
Construction	Surveyed by:		Engineering Advisor RAMP UP N	Project
	Estimated by:		Engineering Advisor RAMP UP N	Name: Maymana Fruit and vegetable Market
	Conceptual Approved by:		Head of SDAG	
Drawing Number: 10/11	Conceptual Approved by:		Mayor of Maymana	
brawing Namber: 10711	Technical Checked by:		Engineering Director RAMP-UP N	h 2017
	Approved by:		Projects Manager RAMP-UP N	June 2013





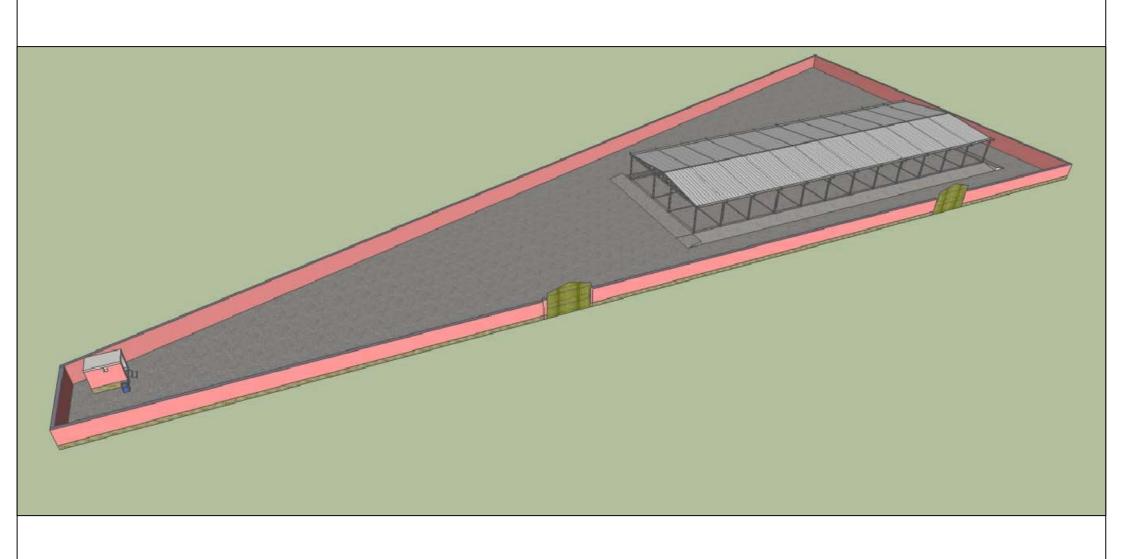
Drawing Title: 3D Drawing		Name	Position/Organization
	Surveyed by:		Engineering Advisor RAMP UP N
	Estimated by:		Engineering Advisor RAMP UP N
	Conceptual Approved by:		Head of SDAG
Drawing Number: 1/6	Conceptual Approved by:		Mayor of Maymana
Drawing Namber. 176	Technical Checked by:		Engineering Director RAMP—UP N
l			T.

Project Name: Maymana Fruit and vegetable Market

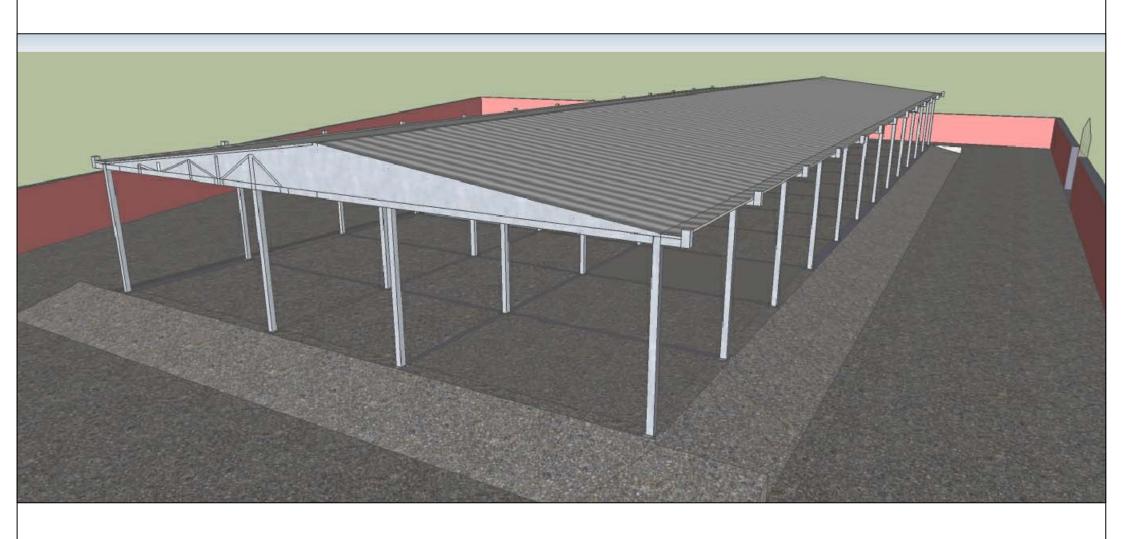


Drawing Title: 3D		Name	Position/Organization	
Drawing Title: 3B	Surveyed by:		Engineering Advisor RAMP UP N	Project Name: Mayman
	Estimated by:		Engineering Advisor RAMP UP N	and vegetable Market
	Conceptual Approved by:		Head of SDAG	
Drawing Number: 2/6	Conceptual Approved by:		Mayor of Maymana	
Drawing Namber. 270	Technical Checked by:		Engineering Director RAMP-UP N	
	Approved by:	Projects Manager RAMP-UP N		June 2013

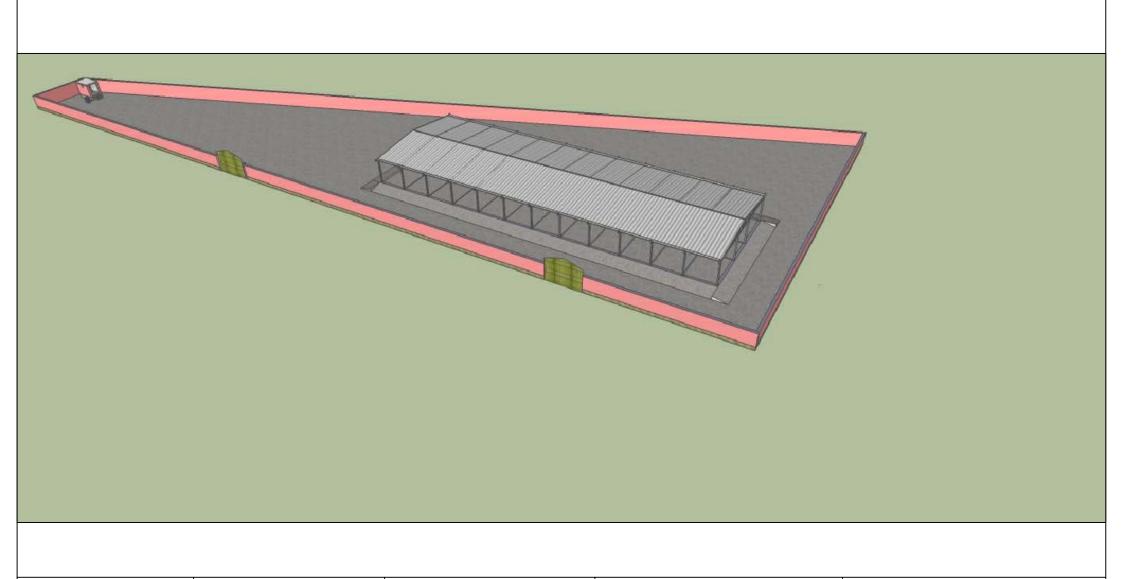
ana Fruit



Drawing Title: 3D		Name	Position/Organization	
Drawing Title: 3B	Surveyed by:		Engineering Advisor RAMP UP N	Project Name: Maymana Fruit
	Estimated by:		Engineering Advisor RAMP UP N	and vegetable Market
	Conceptual Approved by:		Head of SDAG	
Drawing Number: 3/6	Conceptual Approved by:		Mayor of Maymana	
Drawing Namber. 576	Technical Checked by:		Engineering Director RAMP-UP N	
	Approved by:		Projects Manager RAMP-UP N	June 2013

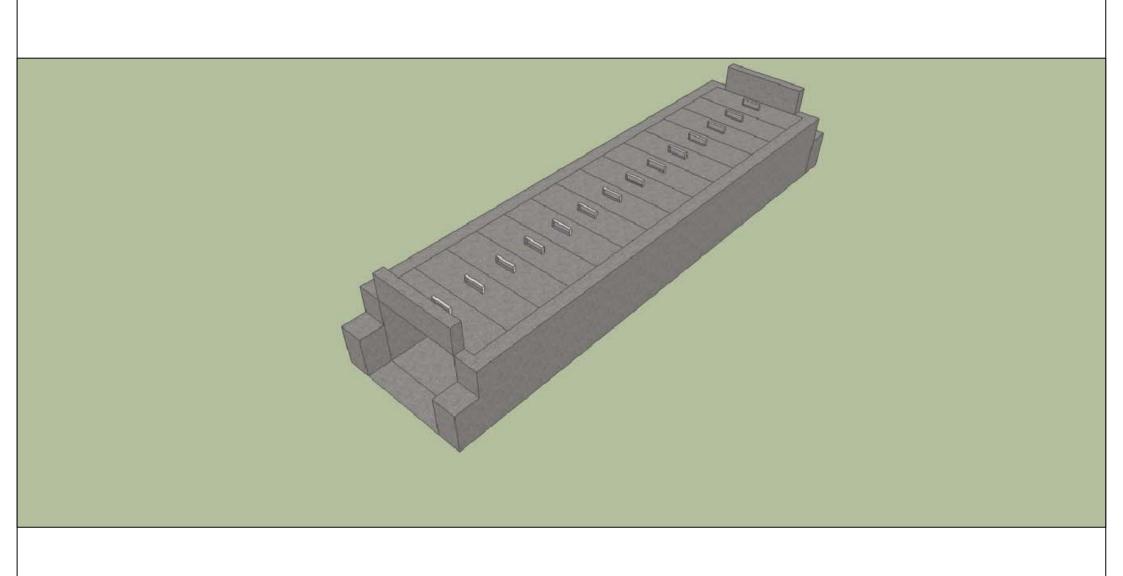


Drawing Title: 3D		Name	Position/Organization	
Drawing Title: 3B	Surveyed by:		Engineering Advisor RAMP UP N	Project Name: Maymana Fruit
	Estimated by:		Engineering Advisor RAMP UP N	and vegetable Market
	Conceptual Approved by:		Head of SDAG	
Drawing Number: 4/6	Conceptual Approved by:		Mayor of Maymana	
	Technical Checked by:		Engineering Director RAMP-UP N	
	Approved by:		Projects Manager RAMP-UP N	June 2013



Drawing Title: 3D Drawing		Name	Position/Organization	
	Surveyed by:		Engineering Advisor RAMP UP N	Project Name: Maymana
	Estimated by:		Engineering Advisor RAMP UP N	and vegetable Market
	Conceptual Approved by:		Head of SDAG	
Drawing Number: 5/6	Conceptual Approved by:		Mayor of Maymana	
	Technical Checked by:		Engineering Director RAMP—UP N	
	Approved by:		Projects Manager RAMP-UP N	June 2013

Fruit



Drawing Title: 3D Drawing		Name	Position/Organization	
	Surveyed by:		Engineering Advisor RAMP UP N	Project Name: Maymana Fruit
	Estimated by:		Engineering Advisor RAMP UP N	and vegetable Market
	Conceptual Approved by:		Head of SDAG	
Drawing Number: 6/6	Conceptual Approved by:		Mayor of Maymana	
	Technical Checked by:		Engineering Director RAMP-UP N	
	Approved by:		Projects Manager RAMP-UP N	June 2013